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DIALOG(R)File 347:JAPIO
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PREPARATION OF PLYWOOD

PUB. NO.: 58-034877 [JP 58034877 A]

PUBLISHED: March 01, 1983 (19830301)

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APPL. NO.: 56-133402 [JP 81133402]

FILED: August 27, 1981 (19810827)

INTL CLASS: [3] C09J-003/16; B32B-021/00; C08L-061/24

JAPIO CLASS: 14.7 (ORGANIC CHEMISTRY -- Coating Material Adhesives); 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds); 14.9 (ORGANIC CHEMISTRY -- Other)

JOURNAL: Section: C, Section No. 166, Vol. 07, No. 114, Pg. 111, May 18, 1983 (19830518)

ABSTRACT

PURPOSE: To prepare plywoods which emits a reduced amount of formaldehyde, by using an aged urea resin adhesive solution containing free urea to which defatted soya bean powder has been added.

CONSTITUTION: A mixed adhesive solution prepared by mixing wheat flour, water, hardener and defatted soya bean powder into a urea resin adhesive commonly used for plywood consisting of a low-formaldehyde urea resin which contains free urea or containing urea in an amount equal to that of free urea, is aged as it is for five hours or longer. The defatted soya bean powder is added in about 3-30pts.wt. per 100pts.wt. resin. A plywood made by coating the aged adhesive, followed by cold pressing and curing by hot pressing, shows a marked decrease of formaldehyde as compared with those coated with a conventional unaged adhesive solution and heat cured.

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Basic Patent (No,Kind,Date): JP 58034877 A2 830301. <No. of Patents: 002>
Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
JP 58034877	A2	830301	JP 81133402	A	810827 (BASIC)
JP 90033750	B4	900730	JP 81133402	A	810827

Priority Data (No,Kind,Date):

JP 81133402 A 810827

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 58034877 A2 830301

PREPARATION OF PLYWOOD (English)

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Priority (No,Kind,Date): JP 81133402 A 810827

Applic (No,Kind,Date): JP 81133402 A 810827

IPC: * C09J-003/16; B32B-021/00; C08L-061/24

CA Abstract No: * 99(16)123573R

Derwent WPI Acc No: * C 83-33641K

JAPIO Reference No: * 070114C000111

Language of Document: Japanese

Patent (No,Kind,Date): JP 90033750 B4 900730

GOHANNOSEIZOHOO (English)

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Priority (No,Kind,Date): JP 81133402 A 810827

Applic (No,Kind,Date): JP 81133402 A 810827

IPC: * C09J-161/24; B32B-021/00; C08L-061/24; C09J-189-00; C08L-089-00

Language of Document: Japanese

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